NSLS OHSAS Facility Risk Assessment

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Name(s) of Risk Team Members: **NSLS OHSAS Committee**	Point Value → Parameter ↓	1	2	3	4	5
Area/Facility Description Title: **General Radiation Issues** Area/Facility # (if applicable): **LS-FRA-0008**	Occupancy or Use	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Area/Facility Description: **NSLS Facility ionizing and non-ionizing radiation hazards and controls.**	Severity	**First Aid Only/** Rad stop work, RAR	**Medical Treatment/** ORPS threshold exceeded	**Lost Time/** NTS report filed with DOE	**Partial Disability/** DOE enforcement action levied against BNL	**Death or Permanent Disability/** DOE mandated rad ops stand down
Approved by: **W. R. Casey** Date: **10/27/05** Rev.#: **1** Revision Log	Likelihood	**Extremely Unlikely** <<1x/20yrs	**Unlikely** 1x/10-20yrs	**Possible** >1x/10-20yrs	**Probable** 1x/yr	**Multiple** >1x/yr
Reason for Revision (if applicable):				**Comments:**		

		Before Controls					After Initial Controls					After Additional Controls				
Physical Item or Activity	**Hazard(s)**	**Occupancy A**	**Severity B**	**Likelihood C**	**Risk* AxBxC**	**Initial Controls**	**Occupancy A**	**Severity B**	**Likelihood C**	**Risk* AxBxC**	**Control(s) Added to Reduce Risk**	**Occupancy A**	**Severity B**	**Likelihood C**	**Risk* AxBxC**	**% Risk Reduction**
Being in a controlled area	Radiation exposure	5	1	3	15	Access control, training, postings, procedures, TLD as needed	5	1	2	10						
Being in close proximity to accelerator enclosures	Elevated radiation levels caused by mis-steering or mis-tuning of beam	3	3	3	27	Access control, SAD, ASE, operator training, procedures, radiation monitoring, equipment design, configuration control	3	2	2	12						

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Being in close proximity to sealed radiation source	Radiation exposure	2	1	3	6	Postings, custodian program, SBMS subject area, proper labeling & storage	2	1	2	4						
Being in close proximity to unsealed radiation source, dispersibles, Accountable Nuclear Materials etc.	Radiation exposure	1	2	2	4	Postings, training, procedures, RWPs, proper labeling & storage	1	2	1	2						
Being in close proximity to activated materials, i.e. accelerator metal parts activated by the electron beam	Radiation exposure	1	2	2	4	Access control, training, dosimetry as required, activation checks, RWP as needed, work planning and permits, proper labeling & posting if stored	1	2	1	2						
Being in close proximity to magnetic fields	Medical implants exposed to fields >5 gauss: - pacemaker - defibrillator - insulin pump - cochlear implant other	2	5	2	20	Access control, posting/barriers, IH surveys, Static Magnetic Fields SBMS Subject Area, procedures, training, work area conditions, field maps, “tell tails”,	2	5	1	10						

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Further Description of Controls Added to Reduce Risk:																

***Risk:**	**0 to 20 Negligible**	**21 to 40 Acceptable**	**41 to 60 Moderate**	**61 to 80 Substantial**	**81 or greater Intolerable**